

**CLAIM AMENDMENTS**

1. (currently amended) A biological sample processing system, comprising:  
a sample processing device; and  
a biological sample carrier having a surface adapted to have a biological sample attached to the surface;

wherein the carrier is adapted to mate with the device to form a reaction chamber defined in part by the carrier such that at least a portion of the surface adapted to have a biological sample attached is included in the chamber; the carrier being adapted to introduce the sample to the reaction chamber upon mating the carrier to the device.

2. (previously amended) The biological sample processing system of claim 1, wherein the sample processing device further includes an extraction chamber.

3. (previously amended) The biological sample processing system of claim 1, wherein the sample processing device further includes a dilution chamber.

4. (previously amended) The biological sample processing system of claim 1, wherein the sample processing device includes a pump.

Claims 5-24 (withdrawn)

25. (previously added) The biological sample processing system of claim 1, wherein the sample processing device is a centrifuge tube.

26. (previously added) The biological sample processing system of claim 1, wherein the sample processing device is a laminated assembly.

27. (previously added) The biological sample processing system of claim 1 wherein the sample processing device is a laminated assembly and centrifuge tube.

28. (currently amended) A biological sample processing system, comprising:  
a sample processing device including:  
a first chamber having a first port and a second port; and  
a second chamber fluidly coupled to the first chamber via the second port; and  
a sample carrier having a surface adapted to have a biological sample attached to the surface; the sample carrier being adapted to mate with the device to form the first chamber defined in part by the sample carrier such that at least a portion of the surface adapted to have a biological sample attached is included in the first chamber; the carrier being adapted to introduce the sample to the reaction chamber upon mating the carrier to the device.

29. (previously added) The biological sample processing system of claim 28, wherein the second port is a stop junction.

30. (previously added) The biological sample processing system of claim 28, wherein the sample processing device includes a centrifuge tube.

31. (currently amended) A biological sample processing system, comprising:  
a sample processing device including:  
a first chamber having a first port, a second port and a third port;  
a first conduit;  
a second chamber fluidly coupled to the first chamber via the second port and the first conduit; and  
a second conduit fluidly coupled to the first chamber via the third port; and  
a sample carrier having a surface adapted to have a biological sample attached to the surface; the sample carrier being adapted to mate with the device to form the first chamber defined in part by the sample carrier such that at least a portion of the surface adapted to have a biological sample attached is included in the first chamber; the carrier being adapted to introduce the sample to the reaction chamber upon mating the carrier to the device.

32. (previously added) The biological sample processing system of claim 31, wherein the second chamber is a fluid reservoir.

33. (previously added) The biological sample processing system of claim 31, wherein the second chamber includes a pump.

34. (previously added) The biological sample processing system of claim 31, wherein the sample processing device further includes a third chamber fluidly coupled to the first chamber via the second conduit.

35. (previously amended) The biological sample processing system of claim 34, wherein the sample processing device further includes a third conduit fluidly couple to the third chamber.

36. (previously added) The biological sample processing system of claim 31, wherein the sample processing device is a laminated assembly.

37. (previously amended) The biological sample processing system of claim 36, wherein the laminated assembly includes:

a first layer;

a second layer defining the second chamber, first conduit and second conduit;

a third layer defining a fill port and stop junction holes; and

a fourth layer defining the first chamber;

wherein the second layer is located between the first layer and third layer; the third layer being located between the second layer and fourth layer.